

## ABSTRACT

The present invention relates to a method and apparatus for providing automatic context management for simulating virtual users for testing and monitoring web applications, including those web applications that execute code on the client side, without requiring the actual execution  
5 of client side web application code or the execution of the client within the testing, monitoring, or simulation tool. Simulation tools with automatic context management according to the present invention can record and replay context-full scripts that do not require manual customization and are capable of handling state information even for web applications that execute code on the client side. These scripts are able to realistically mimic complex web application transactions on the  
10 network HTTP layer.